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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

 Application Number
 10/537,503

 Filing Date
 June 3, 2005

 First Named Inventor
 James H, Saunders, et al.

 Art Unit
 1746 – 179

 Examiner Name
 Thormes Stevens

 Attoney Dockt Number
 1320US

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	No.1	Document Number Number-Kind Code ² (* Innext)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/A.P./		US- 6,635,369	10/2003	Uribe et al.	
/A.P./		US- 3,436,271	4/1969	Cole et al.	
/A.P./		US- 5,023,150	6/1991	Takabayashi	
/A.P./		^{US-} 6,096,449	8/2000	Fuglevand et al.	
/A.P./		^{US-} 6,255,008	7/2001	Iwase	
/A.P./		^{US-} 4,741,978	5/1988	Takabayashi	
/A.P./		US- 4,904,548	2/1990	Tajima	
/A.P./		US- 5,925,476	7/1999	Kawatsu	
/A.P./		US- 3,544,380	12/1970	Dey	
7A.P./		US- 5,601,936	2/1997	Dudfield, et al.	
/A.P./		^{US-} 6,069,448	8/2000	Wilkinson et al.	
/A.P./		^{US-} 6,210,820	4/2001	Knights et al.	
/A.P./	l	US- 4,440,611	4/1984	Dhar et al.	
/A.P./		^{US-} 4,497,698	2/1985	Bockris et al.	
/A.P./		∪\$- 4,501,804	2/1985	Bockris et al.	
/A.P./		∪\$- 4,772,776	2/1988	Murphy et al.	
/A.P./	1	US- 4,734,168	3/1988	Bockris et al.	
/A.P./		^{US-} 4,790,916	12/1988	Murphy et al.	
/AP/		US- 4,910,099	3/1990	Gottesfeld	

		FOREIGN	PATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
/A.P./		WO 01/80340	4/2001	Klos et al.		
/A.P./		DE 10053851	5/2002	Bruck et al.		
/A.P./		JP 11345624	12/1999	Yasumoto et al		
/A P /		JP 8007905	1/1996	Kurisutofuaa et	a1.	
/A.P./		WO 98/42038	3/1998	Friedrich et al.		
/A.P./		EP 0701294	8/1996	Dudfield et al.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

Complete if Known Application Number 10/537.503 Filing Date June 3, 2005 First Named Inventor James H. Saunders, et al. Art Unit 1795 Thomas Stevens Phasge Attorney Docket Number 13920US

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ² (Finance)	MIN-DD-1111	Applicant of Cited Document	Figures Appear
A.P./		^{US-} 4,959,132	9/1990	Fedkiw, Jr.	
/A.P./		US- 4,995,952	2/1991	Dandapani et al.	
/A.P./		US- 5,223,102	6/1993	Fedkiw, Jr. et al.	
/A.P./		US- 5,242,505	9/1993	Lin et al.	
A.P./		^{US-} 5,399,245	3/1995	Fedkiw, Jr.	
/A.P./		^{US-} 5,677,073	10/1997	Kawatsu	
/A.P./		US- 6,245,214	6/2001	Rehg et al.	
/A.P./		US- 3,753,780	8/1973	Fetterman	1.1
AP/		^{US-} 3,607,417	9/1971	McRae et al.	
/A.P	/	US- 3,207,682	9/1965	Oswin et al.	
A.P./		^{US-} 6,238,543	5/2001	Law, Jr. et al.	
/A.P./		^{US-} 6,063,516	5/2000	Grot et al.	
A.P./		US- 5,945,229	8/1999	Mellser	
/A.P./		US- 5,965,299	10/1999	Khan et al.	
/A.P./		US- 5,712,052	1/1998	Kawatsu	
/A.P./		US- 6,265,092	7/2001	Meltser et al.	
/A.P./		US- 6,068,942	5/2000	Strasser et al.	
/A.P./		US- 6,001,499	12/1999	Grot et al.	
/A P /		US- 6,124,060	9/2000	Akita et al.	

		FOREI	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Г
		Country Code ³ "Number ⁴ "Kind Code ⁵ (If known)	MM-DD-YYYY		Or Relevant Figures Appear	Te
/A.P./		JP 410216461	8/1998	Maeda et al.		
/A.P./		JP 402311302	12/1990	Furuya et al.		
/A.P./		WO 99/67846	12/1999	Iwase et al.		
/A.P./		EP 1017121	7/2000	Knights et al.		
/A.P./		EP 0692835	2/2001	Kawatsu et al.		
/A.P.	1	WO 98/52243	11/1998	Bratton et al.		

Examiner Signature	/Arun Phasge/	Date Considered	11/26/2008

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Sabatato to tom 1990/10	Application Number	10/537,503			
INFORMATION DISCLOSURE	Filing Date	June 3, 2005			
	First Named Inventor	James H. Saunders, et al.			
STATEMENT BY APPLICANT	Art Unit	1746 1795			
(Use as many sheets as necessary)	Examiner Name	Thomas Stevens Phasce			

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Attorney Docket Number

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Linas, Where Relevant Passages or Relevant
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/A.P./		^{US-} 5,795,496	8/1998	Yen et al.	
/A.P./		US- 6,183,914	2/2001	Yao et al.	
/A.P./		US- 5,679,482	10/1997	Ehrenberg et al.	
/A.P./		US- 2006/0070886	4/2006	Saunders et al.	
/A.P./		US- 2002/0075003	6/2002	Fridman et al.	
/A.P./		US- 6,232,750	5/2001	Podrazhansky et al.	
/A.P./		US- 5,800,798	9/1998	Ino et al.	
/A.P./		US- 5,976,724	11/1999	Bloomfield, David P.	
/A.P./		US- 5,561,202	10/1996	Helmer-Metzmann et al.	
/A.P./		US- 4,420,544	12/1983	Lawson et al.	
/A.P./		US- 4,053,684	10/1977	Zito, Jr. et al.	
/A.P./		^{US-} 5,985,477	11/1999	lwasaki et al.	
/A.P./		US- 5,525,436	6/1996	Savinell et al.	
/A.P./		US- 2001/0037948	11/2001	Liu et al.	
/A.P./		US- 2001/0028967	10/2001	Roberts et al.	
/A.P./		US- 2001/0038937	11/2001	Suzuki et al.	
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		FORE	IGN PATENT DOCU	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ.
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INFORMATION DISCLOSURE	Filing Date	06/03/2005
STATEMENT BY APPLICANT	First Named Inventor	Saunders et al.
(Use as many sheets as necessary)	Art Unit	1746 1795
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Sheet 4 of 5	Attorney Docket Number	13920US

		NON PATENT LITERATURE DOCUMENTS	
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/A.P./		SPRINGER, T.E., ET AL., Model For Polymer Electrolyte Fuel Cell Operation On Reformate Feed, J. Electrochem. Soc. Volume 148, Issue 1, pp. A11-A23 (January 2001).	
/A.P./		International Search Report citing WO 01/80340 and DE 10053851	
/A.P./		International Search Report citing DE 19710819	
/A.P./		PARK, Direct Oxidation Of hydrocarbons in A Solid-Oxide Fuel Cell, Nature, Vol. 404, pp. 265-267 (2000).	
/A.P./		WANG ET AL., Pulsed-Potential Oxidation Of Methanol; I. Smooth Platinum Electrode With And Without Tin Surface Modification, J. Electrochem, Soc. V. 139, No. 9, 2519-2525 1992	
/A.P./		Dzwinel et al., A Computational Model Of Fuel Cell Short-Time Dynamics, Transactions, Vol. 4, No. 4, pp 229-310 (1987).	
/A.P./		Argyropoulos et al., Dynamic Response Of The Direct Methanol Fuel Cell Under Variable Load Conditions, Journal of Power Sources, Vol. 87, 153-161 (2000).	
/A.P./		Koper, The Theory Of Electrochemical Instabilities, Electrochimica Acta, Vol. 37, No. 10, pp 1771-1778 (1992).	
/A.P./		Parmananda et al., Stabilization Of Unstable Steady States In An Electrochemical System Using Derivative Control, Physical Review E. Vol. 49, No. 6, 5007-5011 (1994).	
/A.P./		Bockris, Basis Of Possible Continuous Self Activation In an Electrochemical Energy Converter, J. Electroanal, Chem., Vol. 7, 487-490 (1964).	

Examiner Date /Arun Phasge/ 11/26/2008 Signature Considered

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considered, include copy of this from with next communication to applicant.

1 Applicant's numeric cuttions designated number optionals. Applicant is not place a check mark here if English language Transition is in statisfie.

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Application Number	10/537,503
E Filing Date	06/03/2005
T First Named Inventor	Saunders et al.
Art Unit	1746 1795
Examiner Name	Thomas Stevens Phasge
Attorney Docket Number	13920US
	Filing Date First Named Inventor Art Unit Examiner Name

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
/A.P./		Deibert et al., Voltage Oscillations Of The H2-CO System, J. Electrochem. Soc., Vol. 116, No. 9, pp. 1290-1292 (1969).	
/A.P./		Farooque et al., The Anodic Oxidation Of Methanol Via Continuous Electrode Reactivation, Electrochimica Acta, Vol. 24, pp. 547-553 (1979).	
/A.P./		Fedikiw et al., Pulsed-Potential Oxidation Of Methanol, J. Electrochem Soc., Vol. 135, No. 10, pp 2459-2465 (1988).	
/A.P./		Carrette et al., Improvement of CO Tolerance Of Proton Exchange Membrane (PEM) Fuel Cells By A Pulsing Technique, PCCP, Vol. 3, No. 3, pp. 320-324 (2001).	
/A.P./		Utkin, Sliding Modes In Control And Optimization, pp. 198-205, Springer-Verlag, Berlin (1992).	
/A.P./		Fukumoto, Oscillation Phenomena On The Cell Voltage Of PEFCs During CO Poisoning, Electrochemistry, Vol. 68, No. 10, pp 794, 796, 798, 800 (2000).	
			A .
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Examiner	/Arun Phasge/	Date	11/26/2008
Signature		Considered	11/20/2000

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